

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.00	Rating **	A	Issue No.	39
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD1602_01_s _ 2012_39				
Comment Code					
Inspector Comment					
The LMA has all the O&M manuals.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	77
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD1602_01_s _ 2012_77				
Comment Code					
Inspector Comment					
The LMA has enough flood materials in case of an incident.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	97
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD1602_01_s _ 2012_97				
Comment Code					
Inspector Comment					
The LMA has solid understanding and most of them have flood preparedness training. They will have more training this year with other districts.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.09	Rating **	M	Issue No.	60
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.477161°	37.477299°
				-121.082504°	-121.082084°
DWR ID	DWR_RD1602_01_s_2018_60				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_60_20180905_00032.jpg



Looking upstream at trees on landward slope.

LM Start	0.13	Rating **	M	Issue No.	108
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.477232°	37.480281°
				-121.081856°	-121.075095°
DWR ID	DWR_RD1602_01_f_2018_108				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.13	Rating **	M	Issue No.	109	
LM End	0.55	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.477236 °		37.480261 °
				-121.081854 °		-121.075148 °
DWR ID	DWR_RD1602_01_f_2018_109					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.13	Rating **	M	Issue No.	111
LM End	0.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.477237 °	37.479711 °
				-121.081854 °	-121.076329 °
DWR ID	DWR_RD1602_01_f_2018_111				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.18	Rating **	M	Issue No.	20
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477575 °	37.477575 °
				-121.080943 °	-121.080943 °
DWR ID	DWR_RD1602_01_f_2016_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.20	Rating **	M	Issue No.	28
LM End	0.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477706 °	37.477706 °
				-121.080674 °	-121.080674 °
DWR ID	DWR_RD1602_01_f_2015_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD1602_110_28_20180905_00008.jpg



Updated picture of the rodent hole on the waterside of the levee during spring 2016 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.20	Rating **	M	Issue No.	28 (cont)	
LM End	0.20	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.477706 °		37.477706 °
				-121.080674 °		-121.080674 °
DWR ID	DWR_RD1602_01_f_2015_28					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : FA_2018_RD1602_110_28_20180905_00009.jpg



A rodent hole was found on the waterside of the levee.

LM Start	0.26	Rating **	M	Issue No.	29
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478138 °	37.478138 °
				-121.079810 °	-121.079810 °
DWR ID	DWR_RD1602_01_f_2017_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD1602_110_29_20180905_00010.jpg



View of a rodent hole on the waterside of the levee. Fall 2017

LM Start	0.26	Rating **	M	Issue No.	29 (cont)
LM End	0.26	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD1602_110_29_20180905_00011.jpg



Looking at typical rodent holes on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.47	Rating **	M	Issue No.	31
LM End	0.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.479659°	37.479659°	
			-121.076419°	-121.076419°	
DWR ID	DWR_RD1602_01_f_2015_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.50	Rating **	M	Issue No.	110
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.479899°	37.479899°	
			-121.075930°	-121.075930°	
DWR ID	DWR_RD1602_01_f_2018_110				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.58	Rating **	A/W	Issue No.	200
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.480182°	37.480182°
				-121.074765°	-121.074765°
DWR ID	20215				
Comment Code					
Inspector Comment					
FS_ID:51325 DS_ID:20215 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784]. FS Date: 11/18/2016					

Photo 1 of 3 : UCIP_FA_2018_51325_36702.jpg



60-inch CMP riser on WS shoulder.

LM Start	0.58	Rating **	A/W	Issue No.	200 (cont)
LM End	0.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51325_36701.jpg



CMP riser with slide gate on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.58	Rating **	A/W	Issue No.	200 (cont)	
LM End	0.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.480182 °	37.480182 °	
				-121.074765 °	-121.074765 °	
DWR ID	20215					
Comment Code						
Inspector Comment						
FS_ID:51325 DS_ID:20215 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784]. FS Date: 11/18/2016						

Photo 3 of 3 : UCIP_FA_2018_51325_36700.jpg



Damaged Wooden lid on WS toe.

LM Start	0.59	Rating **	M	Issue No.	105
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.479981 °	37.478261 °
				-121.074595 °	-121.065861 °
DWR ID	DWR_RD1602_01_f_2018_105				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.59	Rating **	M	Issue No.	106
LM End	1.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.479980 °	37.478266 °
				-121.074595 °	-121.065869 °
DWR ID	DWR_RD1602_01_f_2018_106				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.63	Rating **	M	Issue No.	107
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.479569 °	37.479569 °
				-121.074299 °	-121.074299 °
DWR ID	DWR_RD1602_01_f_2018_107				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.64	Rating **	M	Issue No.	30
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.479391 °	37.479391 °
				-121.074168 °	-121.074168 °
DWR ID	DWR_RD1602_01_f_2017_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_30_20180905_00012.jpg



View of rodent holes on the waterside slope of the levee. Fall 2017

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.77	Rating **	A/W	Issue No.	202
LM End	0.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.477993°	37.477993°
				-121.072645°	-121.072645°
DWR ID	20216				
Comment Code					
Inspector Comment					
FS_ID:51634 DS_ID:20216 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.78), Drawing No. 7-4-1784]. FS Date: 11/18/2016					

LM Start	0.77	Rating **	A/W	Issue No.	202 (cont)
LM End	0.77	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51634_36723.jpg



Inlet on LS toe.

Photo 2 of 3 : UCIP_FA_2018_51634_36722.jpg



Slide gate in concrete box on WS shoulder.

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Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	0.77	Rating **	A/W	Issue No.	202 (cont)	
LM End	0.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.477993 °	37.477993 °	
				-121.072645 °	-121.072645 °	
DWR ID	20216					
Comment Code						
Inspector Comment						
FS_ID:51634 DS_ID:20216 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.78), Drawing No. 7-4-1784]. FS Date: 11/18/2016						

Photo 3 of 3 : UCIP_FA_2018_51634_36721.jpg



Concrete inlet on LS toe.

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LM Start	1.00	Rating **	M	Issue No.	203	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.478816 °	37.478816 °	
				-121.068780 °	-121.068780 °	
DWR ID	20217					
Comment Code						
Inspector Comment						
FS_ID:51636 DS_ID:20217 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currently not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016						

LM Start	1.00	Rating **	M	Issue No.	203 (cont)
LM End	1.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51636_36758.jpg



Pumping plant on LS toe. Pipe visible under walkway.

Photo 2 of 3 : UCIP_FA_2018_51636_36757.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

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LM Start	1.00	Rating **	M	Issue No.	203 (cont)							
LM End	1.00	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP LMA Responsibility		37.478816°	37.478816°								
			-121.068780°	-121.068780°								
DWR ID	20217											
Comment Code												
Inspector Comment												
FS_ID:51636 DS_ID:20217 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currently not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016												

Photo 3 of 3 : UCIP_FA_2018_51636_36756.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.00	Rating **	M	Issue No.	204
LM End	1.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.478817 °	37.478817 °
				-121.068773 °	-121.068773 °
DWR ID	20219				
Comment Code					
Inspector Comment					
FS_ID:51637 DS_ID:20219 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016					

LM Start	1.00	Rating **	M	Issue No.	204 (cont)
LM End	1.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51637_36772.jpg



Pipe visible under walkway at puming plant on LS toe.

Photo 2 of 3 : UCIP_FA_2018_51637_36771.jpg



Siphon breaker covered in soil at CMP riser on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.00	Rating **	M	Issue No.	204 (cont)	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.478817 °	37.478817 °	
				-121.068773 °	-121.068773 °	
DWR ID	20219					
Comment Code						
Inspector Comment						
FS_ID:51637 DS_ID:20219 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016						

Photo 3 of 3 : UCIP_FA_2018_51637_36770.jpg



Concrete headwall on WS toe with missing flapgate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No.	205
LM End	1.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.478779 °	37.478779 °
				-121.068508 °	-121.068508 °
DWR ID	20218				

Comment Code

Inspector Comment

FS_ID:53521

DS_ID:20218

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it difficult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has separated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe separated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784].

FS Date: 10/19/2018 10:23:00 AM

Photo 1 of 3 : UCIP_FA_2018_53521_36786.jpg



Grated inlet and 5'X5' concrete box on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No.	205 (cont)	
LM End	1.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.478779 °	37.478779 °	
				-121.068508 °	-121.068508 °	
DWR ID	20218					
Comment Code						
Inspector Comment						
FS_ID:53521 DS_ID:20218 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it difficult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 10/19/2018 10:23:00 AM						

Photo 2 of 3 : UCIP_FA_2018_53521_36785.jpg



Grated inlet at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No.	205 (cont)
LM End	1.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.478779 °	37.478779 °
				-121.068508 °	-121.068508 °
DWR ID	20218				

Comment Code

Inspector Comment

FS_ID:53521

DS_ID:20218

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it difficult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has separated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe separated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784].

FS Date: 10/19/2018 10:23:00 AM

Photo 3 of 3 : UCIP_FA_2018_53521_36789.jpg



Slide gate in concrete riser next to shed on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.05	Rating **	M	Issue No.	2
LM End	1.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.478567 °	37.478567 °
				-121.067847 °	-121.067847 °
DWR ID	RD1602U01RM97.68				
Comment Code					
Inspector Comment					
09/20/2017: The erosion was discovered during the spring levee inspection. The size of the erosion is roughly estimated due to dense vegetation at the site. [2017 Site ID:RD1602U01RM97.68]					

Photo 1 of 4 : FA_2018_RD1602_110_2_20180905_00001.jpg



Close view of the erosion. The erosion is covered by dense vegetation at the site.

LM Start	1.05	Rating **	M	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_RD1602_110_2_20180905_00002.jpg



Close view of the erosion.

LM Start	1.05	Rating **	M	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD1602_110_2_20180905_00003.jpg



Looking up at the erosion from the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.05	Rating **	M	Issue No.	2 (cont)	
LM End	1.05	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.478567 °		37.478567 °
				-121.067847 °		-121.067847 °
DWR ID	RD1602U01RM97.68					
Comment Code						
Inspector Comment						
09/20/2017: The erosion was discovered during the spring levee inspection. The size of the erosion is roughly estimated due to dense vegetation at the site. [2017 Site ID:RD1602U01RM97.68]						

Photo 4 of 4 : FA_2018_RD1602_110_2_20180905_00004.jpg



Close view of the erosion.

LM Start	1.14	Rating **	C	Issue No.	76
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.478289 °	37.478289 °
				-121.066296 °	-121.066296 °
DWR ID	DWR_RD1602_01_s_2018_76				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.19	Rating **	M	Issue No.	32
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478347 °	37.478347 °
				-121.065361 °	-121.065361 °
DWR ID	DWR_RD1602_01_f_2017_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.25	Rating **	M	Issue No.	78
LM End	1.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.478614 °	37.478614 °
				-121.064490 °	-121.064490 °
DWR ID	DWR_RD1602_01_s_2018_78				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.43	Rating **	M	Issue No.	102
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.479012 °	37.470266 °
				-121.061448 °	-121.055937 °
DWR ID	DWR_RD1602_01_f_2018_102				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.57	Rating **	M	Issue No.	33
LM End	1.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.478113 °	37.478113 °
				-121.059287 °	-121.059287 °
DWR ID	DWR_RD1602_01_f_2017_33				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_33_20180905_00013.jpg



View of prunings on the landside of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	1.70	Rating **	M	Issue No.	103
LM End	1.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.476558 °	37.472262 °
				-121.058183 °	-121.057879 °
DWR ID	DWR_RD1602_01_f_2018_103				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.01	Rating **	U	Issue No.	100
LM End	2.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.472087°	37.469037°
				-121.057834°	-121.049111°
DWR ID	DWR_RD1602_01_f_2018_100				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_100_20181109_00106.jpg



dense brush along waterside shoulder and slope. (Fall 2018)

LM Start	2.20	Rating **	U	Issue No.	99
LM End	2.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.470187 °	37.469565 °
				-121.055569 °	-121.049977 °
DWR ID	DWR_RD1602_01_f_2018_99				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_99_20181109_00109.jpg



View of dense brush on landside slope. (Fall 2018)

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	2.29	Rating **	M	Issue No.	79
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470348 °	37.470348 °
				-121.053987 °	-121.053987 °
DWR ID	DWR_RD1602_01_s _ 2017_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.56	Rating **	M	Issue No.	81
LM End	2.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.469268 °	37.469268 °
				-121.049413 °	-121.049413 °
DWR ID	DWR_RD1602_01_s _ 2017_81				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_81_20180905_00050.jpg



View of a rodent hole on the waterside slope of the levee.

LM Start	2.67	Rating **	C	Issue No.	19
LM End	2.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.468212 °	37.468212 °
				-121.048096 °	-121.048096 °
DWR ID	DWR_RD1602_01_s _ 2016_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	2.78	Rating **	A/W	Issue No.	98
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.466997°	37.466997°
				-121.046606°	-121.046606°
DWR ID	DWR_RD1602_01_f_2018_98				
Comment Code					
Inspector Comment					
erosion spot at waterside toe					

Photo 1 of 2 : FA_2018_RD1602_110_98_20181109_00111.jpg



erosion at waterside toe. (Fall 2018)

LM Start	2.78	Rating **	A/W	Issue No.	98 (cont)
LM End	2.78	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD1602_110_98_20181109_00110.jpg



close up view of erosion at toe. (Fall 2018)

LM Start	2.79	Rating **	C	Issue No.	41
LM End	2.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.466887 °	37.466887 °
				-121.046460 °	-121.046460 °
DWR ID	DWR_RD1602_01_f_2016_41				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1602 Del Puerto

Photo 1 of 1 : FA_2018_RD1602_110_96_20181109_00112.jpg



View of rodent hole in crown. (Fall 2018)

Photo 1 of 1 : FA_2018_RD1602_110_49_20180905_00023.jpg



04/06/2017

View of rodent holes on the waterside slope of the levee. Spring 2017

Photo 1 of 1 : FA_2018_RD1602_110_51_20180905_00025.jpg



View of a rodent hole on the waterside of the levee.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	2.98	Rating **	M	Issue No.	95
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.464810°	37.464810°	
			-121.044248°	-121.044248°	
DWR ID	DWR_RD1602_01_f_2018_95				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.16	Rating **	C	Issue No.	25
LM End	3.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.462947°	37.462947°	
			-121.041967°	-121.041967°	
DWR ID	DWR_RD1602_01_s_2016_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.24	Rating **	M	Issue No.	94
LM End	3.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.461879°	37.461879°	
			-121.041519°	-121.041519°	
DWR ID	DWR_RD1602_01_f_2018_94				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1602 Del Puerto

View of rodent holes on the landside of the levee. Fall 2016

No Photos

View of a rodent hole on the waterside of the levee.

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Reclamation District No. 1602 Del Puerto

View of a tree trunk on the waterside slope of the levee.

View of rodent holes on the waterside of the levee.

Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	3.96	Rating **	M	Issue No.	85							
LM End	3.96	Issue Type +	Ma	Location *	CR							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Crown Surface / Depressions / Rutting		37.452931 °	37.452931 °								
			-121.041863 °	-121.041863 °								
DWR ID	DWR_RD1602_01_s_2017_85											
Comment Code												
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.												
Inspector Comment												

No Photos

LM Start	3.98	Rating **	C	Issue No.	69							
LM End	3.98	Issue Type +	Ma	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Animal Control		37.452640 °	37.452640 °								
			-121.041646 °	-121.041646 °								
DWR ID	DWR_RD1602_01_f_2016_69											
Comment Code												
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.												
Inspector Comment												

No Photos

LM Start	4.02	Rating **	C	Issue No.	58							
LM End	4.02	Issue Type +	Ma	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Animal Control		37.452118 °	37.452118 °								
			-121.041306 °	-121.041306 °								
DWR ID	DWR_RD1602_01_f_2017_58											
Comment Code												
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.												
Inspector Comment												

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	4.24	Rating **	C	Issue No.	71
LM End	4.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.449608 °	37.449608 °
				-121.038968 °	-121.038968 °
DWR ID	DWR_RD1602_01_f_2016_71				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.35	Rating **	C	Issue No.	88
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448170 °	37.448170 °
				-121.038072 °	-121.038072 °
DWR ID	DWR_RD1602_01_s_2017_88				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.48	Rating **	C	Issue No.	90
LM End	4.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.446413 °	37.446413 °
				-121.037888 °	-121.037888 °
DWR ID	DWR_RD1602_01_s_2017_90				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1602 Del Puerto

No Photos

View of rodent holes on the waterside of the levee looking downstream.
Spring 2017

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	4.64	Rating **	M	Issue No.	68
LM End	5.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.444038°	37.436190°	
			-121.037963°	-121.036132°	
DWR ID	DWR_RD1602_01_f_2017_68				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	4.67	Rating **	M	Issue No.	72
LM End	5.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.443719°	37.436190°	
			-121.037902°	-121.036135°	
DWR ID	DWR_RD1602_01_f_2017_72				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	4.77	Rating **	C	Issue No.	74
LM End	4.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.442465°	37.442465°	
			-121.036947°	-121.036947°	
DWR ID	DWR_RD1602_01_s_2015_74				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	4.85	Rating **	M	Issue No.	87
LM End	5.13	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.441376 °	37.437541 °
				-121.036699 °	-121.036965 °
DWR ID	DWR_RD1602_01_f_2018_87				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep crown clear of vegetation					

No Photos

LM Start	5.08	Rating **	M	Issue No.	89
LM End	5.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.438249 °	°
				-121.037100 °	°
DWR ID	DWR_RD1602_01_f _ 2018_89				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
damage to slope appears to be from vehicle traffic					

Photo 1 of 2 : FA_2018_RD1602_110_89_20181109_00113.jpg



View along landside slope looking upstream. (Fall 2018)

LM Start	5.08	Rating **	M	Issue No.	89 (cont)
LM End	5.13	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD1602_110_89_20181109_00114.jpg



Upclose view of some of the damage to slope. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.19	Rating **	M	Issue No.	209
LM End	5.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.436748°	37.436748°
				-121.036597°	-121.036597°
DWR ID	20208				

Comment Code

Inspector Comment

FS_ID:51336

DS_ID:20208

EP_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly functioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	5.19	Rating **	M	Issue No.	209 (cont)
LM End	5.19	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51336_36822.jpg



Slide gate in CMP riser on WS slope. Outlet visible under tree in background.

Photo 2 of 3 : UCIP_FA_2018_51336_36821.jpg



Flapgate in Concrete headwall on WS toe under tree.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.19	Rating **	M	Issue No.	209 (cont)	
LM End	5.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.436748 °	37.436748 °	
				-121.036597 °	-121.036597 °	
DWR ID	20208					
Comment Code						
Inspector Comment						
FS_ID:51336 DS_ID:20208 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly functioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784]. FS Date: 11/18/2016						

Photo 3 of 3 : UCIP_FA_2018_51336_36820.jpg



Concrete headwall at inlet on LS toe.

LM Start	5.21	Rating **	U	Issue No.	40
LM End	5.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.436488 °	37.436488 °
				-121.036364 °	-121.036364 °
DWR ID	DWR_RD1602_01_f_2018_40				
Comment Code					
Inspector Comment					
unable to access through gate. None of the keys provided work with lock. LMA does not have key either					

Photo 1 of 1 : FA_2018_RD1602_110_40_20181109_00115.jpg



DWR and LMA do not have keys for locks on gate. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.22	Rating **	M	Issue No.	52
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.436393 °	37.436393 °
				-121.036296 °	-121.036296 °
DWR ID	DWR_RD1602_01_s_2018_52				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on waterward slope.					

Photo 1 of 1 : FA_2018_RD1602_110_52_20180905_00026.jpg



Looking at rodent hole and erosion around rodent hole on waterward slope.

LM Start	5.23	Rating **	A/W	Issue No.	210
LM End	5.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.436246 °	37.436246 °
				-121.036193 °	-121.036193 °
DWR ID	20209				
Comment Code					
Inspector Comment					
FS_ID:21665					
DS_ID:20209					
EP_NO: 8192					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].					
FS Date: 10/1/2013					

Photo 1 of 2 : UCIP_FA_2018_21665_36829.jpg



Shed with slide gate in Concrete riser on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.23	Rating **	A/W	Issue No.	210 (cont)	
LM End	5.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.436246 °	37.436246 °	
				-121.036193 °	-121.036193 °	
DWR ID	20209					
Comment Code						
Inspector Comment						
FS_ID:21665						
DS_ID:20209						
EP_NO: 8192						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].						
FS Date: 10/1/2013						

Photo 2 of 2 : UCIP_FA_2018_21665_36828.jpg



Likely risers for pipe off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.23	Rating **	A/W	Issue No.	211	
LM End	5.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.436227°	37.436227°	
				-121.036169°	-121.036169°	
DWR ID	20222					
Comment Code						
Inspector Comment						
FS_ID:21668 DS_ID:20222 EP_NO: 8192 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784]. FS Date: 10/1/2013						

LM Start	5.23	Rating **	A/W	Issue No.	211 (cont)
LM End	5.23	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_FA_2018_21668_36835.jpg



Slide gate in Concrete vault on WS shoulder.

Photo 2 of 2 : UCIP_FA_2018_21668_36834.jpg



Possible concrete risers for pipe off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.24	Rating **	A/W	Issue No.	212
LM End	5.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.436129°	37.436129°
				-121.036065°	-121.036065°
DWR ID	20210				
Comment Code					
Inspector Comment					
FS_ID:21672 DS_ID:20210 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784]. FS Date: 10/1/2013					

Photo 1 of 3 : UCIP_FA_2018_21672_36848.jpg



Slidegate in concrete riser on WS shoulder.

LM Start	5.24	Rating **	A/W	Issue No.	212 (cont)
LM End	5.24	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_21672_36847.jpg



Concrete outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.24	Rating **	A/W	Issue No.	212 (cont)	
LM End	5.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.436129 °		37.436129 °
				-121.036065 °		-121.036065 °
DWR ID	20210					
Comment Code						
Inspector Comment						
FS_ID:21672 DS_ID:20210 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784]. FS Date: 10/1/2013						

Photo 3 of 3 : UCIP_FA_2018_21672_36846.jpg



Concrete inlet on LS toe.

LM Start	5.24	Rating **	U	Issue No.	38
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.436100 °	37.433677 °
				-121.035987 °	-121.033853 °
DWR ID	DWR_RD1602_01_f_2018_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_38_20181109_00116.jpg



dense brush on landside slope and toe. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.32	Rating **	U	Issue No.	37
LM End	5.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.433038°	37.433038°
				-121.028270°	-121.028270°
DWR ID	DWR_RD1602_01_f_2018_37				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD1602_110_37_20181109_00117.jpg



Large bush on levee shoulder. (Fall 2018)

LM Start	5.32	Rating **	U	Issue No.	37 (cont)
LM End	5.77	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD1602_110_37_20181109_00118.jpg



wild growth on waterside slope (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.46	Rating **	M	Issue No.	213	
LM End	5.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.433646 °	37.433646 °	
				-121.033846 °	-121.033846 °	
DWR ID	20211					
Comment Code						
Inspector Comment						
FS_ID:21674 DS_ID:20211 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/01/2013 Pipe appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 6.9 feet below the crown. Flap gate on the waterside (WS) end. Could not locate, March 1984. (Reclamation District No. 1602). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.50), Drawing No. 7-4-1784]. FS Date: 10/1/2013						

Photo 1 of 1 : UCIP_FA_2018_21674_36854.jpg



Pipe and flapgate visible on WS toe.

LM Start	5.51	Rating **	U	Issue No.	27
LM End	5.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.433172 °	37.433107 °
				-121.033053 °	-121.027423 °
DWR ID	DWR_RD1602_01_f_2018_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_27_20181109_00119.jpg



brush blocking view of landside slope. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.72	Rating **	M	Issue No.	214
LM End	5.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.433003°	37.433003°
				-121.029346°	-121.029346°
DWR ID	20212				
Comment Code					
Inspector Comment					
FS_ID:51337 DS_ID:20212 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from fully closing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784]. FS Date: 11/18/2016					

LM Start	5.72	Rating **	M	Issue No.	214 (cont)
LM End	5.72	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51337_36878.jpg



Slide gate in concrete riser on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_51337_36877.jpg



Concrete U-shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.72	Rating **	M	Issue No.	214 (cont)
LM End	5.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.433003 °	37.433003 °
				-121.029346 °	-121.029346 °
DWR ID	20212				
Comment Code					
Inspector Comment					
FS_ID:51337 DS_ID:20212 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from fully closing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784]. FS Date: 11/18/2016					

Photo 3 of 3 : UCIP_FA_2018_51337_36876.jpg



Concrete U-shaped headwall on LS toe.

LM Start	5.81	Rating **	U	Issue No.	34
LM End	5.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.433081 °	37.433081 °
				-121.027632 °	-121.027632 °
DWR ID	DWR_RD1602_01_f_2018_34				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD1602_110_34_20181109_00120.jpg



trim tree to 5 feet above ground. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.82	Rating **	U	Issue No.	75
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.433104°	37.432447°
				-121.027421°	-121.026391°
DWR ID	DWR_RD1602_01_s_2012_75				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD1602_110_75_20181109_00121.jpg



dense vegetation on waterside slope. (Fall 2018)

LM Start	5.82	Rating **	U	Issue No.	75 (cont)
LM End	5.93	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD1602_110_75_20180905_00046.jpg



Looking at upstream at dense vegetation on waterward slope. (Spring 2018)

LM Start	5.82	Rating **	M	Issue No.	24
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.433108°	37.432800°
				-121.027367°	-121.026151°
DWR ID	DWR_RD1602_01_f_2018_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	5.86	Rating **	M	Issue No.	26
LM End	5.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.433142°	37.433142°
				-121.026702°	-121.026702°
DWR ID	DWR_RD1602_01_f_2018_26				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.90	Rating **	U	Issue No.	61
LM End	6.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.432794 °	37.429165 °
				-121.026146 °	-121.029682 °
DWR ID	DWR_RD1602_01_s_2012_61				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD1602_110_61_20181109_00122.jpg



View of vegetation on landside shoulder and slope. (Fall 2018)

LM Start	5.90	Rating **	U	Issue No.	61 (cont)
LM End	6.22	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD1602_110_61_20180905_00033.jpg



Vegetation was obstructing the view of the landside of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2018 11/06/2018	Corey Fujitani

LM Start	6.13	Rating **	U	Issue No.	86
LM End	6.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.430181 °	37.430181 °
				-121.028679 °	-121.028679 °
DWR ID	DWR_RD1602_01_s_2018_86				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus blocking view of waterward slope.					

Photo 1 of 1 : FA_2018_RD1602_110_86_20180905_00056.jpg



Looking south at dense cactus on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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